09/992,552.

c of c \$

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Certificate

MAR 1 4 2006

of Correction

U.S. Patent No.

In re Patent of

MAR 1 0 2006

: 6,901,809 B2

Issued Title : June 7, 2005

Docket No.

: STRUCTURAL STRESS ANALYSIS

: BAT 0031 PA

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, V.A. 22313-1450, on March 8, 2006.

Attorney - James E. Beyer Reg. No. 39 564

Certificate of Corrections Branch

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 35 U.S.C. 254/255 and 37 C.F.R. 1.322/323

Enclosed herewith are the required two (2) copies of the Certificate of Correction Form PTO/SB/44 for U.S. Patent No. 6,901,809 B2. The following errors in the patent, some of which are the fault of the applicant, are of consequence and correction thereof is respectfully requested.

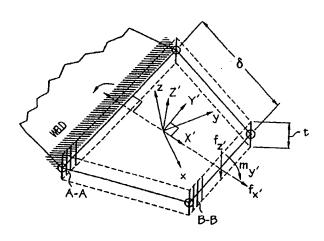
In the drawings, Sheet 9, Fig. 10, the dimensional projection for the term δ has been corrected;

" U.S. Patent

Jun. 7, 2005

Sheet 9 of 10

US 6,901,809 B2



03/13/2008 DEMMANU1 00000081 5901009

01 FC:1611

100.00 OP

FIG. 10

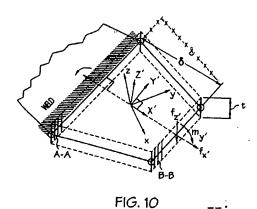
Patent No. 6,901,809 B2 Docket No. BAT 0031 PA Page 2

should read -- U.S. Patent

Jun. 7, 2005

Sheet 9 of 10

US 6,901,809 B2



Col. 9, line 20, "
$$\sigma_m = \frac{1}{t_1} \int_0^{t_1} \sigma_x(y) dy + \frac{1}{t_1} \int_0^{\delta} \tau_{yx}(x) dx$$
" should read --

$$\sigma_{M} = \frac{1}{t_{1}} \int_{0}^{t_{1}} \sigma_{x}(y) dy + \frac{1}{t_{1}} \int_{0}^{\delta} \tau_{yx}(x) dx_{--;}$$

Col. 9, line 30, "
$$\sigma_m \left(\frac{l_1^2}{2}\right) + \sigma_b \left(\frac{l_1^2}{6}\right)$$
" should read $-\sigma_m \left(\frac{t_1^2}{2}\right) + \sigma_b \left(\frac{t_1^2}{6}\right)$ --;

Col. 10, line 60, "
$$\sigma_m' = \frac{(t-t_2)^2}{2} + \sigma_b' \frac{(t-t_2)^2}{6} = \int_0^{t-t_2} \sigma_X(y) y dy + \delta \int_0^{t-t_2} \tau_{xy}(y) dy$$
" should

read
$$-\sigma_{m}' \frac{(t-t_{2})^{2}}{2} + \sigma_{b}' \frac{(t-t_{2})^{2}}{6} = \int_{0}^{t-t_{2}} \sigma_{X}(y)ydy + \delta \int_{0}^{t-t_{2}} \tau_{xy}(y)dy --;$$

Col. 12, line 32, "
$$\sigma_s \sigma_B + \sigma_{M'' \text{ should read }} - \sigma_s = \sigma_B + \sigma_{M;}$$

Col. 14, line 43. "
$$\sigma_b = \sigma_b^C + \frac{L}{l} (\sigma_b^C - \sigma_b^B)$$
" should read --

$$\sigma_b = \sigma_b^B + \frac{L}{l} \left(\sigma_b^C - \sigma_b^B \right)_{--;}$$

Patent No. 6,901,809 B2 Docket No. BAT 0031 PA Page 3

Col. 14, line 50, "
$$\sigma_s = \sigma_T^C + \frac{L}{l} (\sigma_b^C - \sigma_b^B)$$
" should read

$$\sigma_{s} = \sigma_{T}^{B} + \frac{L}{l} \left(\sigma_{b}^{C} - \sigma_{b}^{B} \right)_{--; \text{ and}}$$

Col. 15, line 19, "
$$\sigma_s = \sigma_T^C + \frac{L}{l} (\sigma_b^C - \sigma_b^B)$$
" should read

$$\sigma_s = \sigma_T^B + \frac{L}{l} \left(\sigma_b^C - \sigma_b^B \right)_{-.}$$

REMARKS

Where the some of the above errors are Applicant's errors, they occurred in good faith and correction thereof does not involve such changes in the patent as would constitute new matter or would require re-examination and a Certificate of Correction is respectfully requested. Enclosed is our check in the amount of \$100.00 which represents the payment for the above subject matter.

Respectfully submitted, DINSMORE & SHOHL, LLP

By ________ James E. Beyer

Registration No. 39,564

One Dayton Centre One South Main St., Suite 1300 Dayton, Ohio 45402-2023 Telephone: (937) 449-6400 Facsimile: (937) 449-6405

JEB/AMM Encl.

0.500e a							/17 (12-04)		
Underste Paperwork Redu	Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number								
	Effective on 12/08/2004.			Complete if Known					
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).			App	lication Number	09/992,552; 6,901,809 B2				
FEE TRANSMITTAL			_ Filin	g Date	11/16/01; 06/07/05				
For FY 2005			First	Named Inventor	Pingsha Dong				
Applicant claims small entity status. See 37 CFR 1.27			Exa	miner Name	Lilybett Martir				
Applicant claims sma	III entity status	. See 37 CFR 1.27	Art l	Jnit	2855				
TOTAL AMOUNT OF PA	TOTAL AMOUNT OF PAYMENT (\$) 100.00			rney Docket No.	BAT 0031 PA				
METHOD OF PAYME	NT (check all	that apply)							
Check Credit	t Card 🔲	Money Order	None [Other (please id	lentify):				
Deposit Account	Deposit Accour	t Number:		_ Deposit Account N	lame:				
For the above-ider	ntified deposit	account, the Director is	s hereby a	uthorized to: (chec	k all that apply)				
Charge fee(s) indicated be	olow		Charge fee(s) indicated belo	ow, except for the filin	g fee		
		(s) or underpayments	of fee(s)	Credit any ov	/erpavments				
under 37 Cl WARNING: Information on ti information and authorization		ecome public. Credit car	rd informati	· ·	• •	orm. Provide credit card			
FEE CALCULATION		•							
1. BASIC FILING, SEA	ARCH, AND	EXAMINATION FEE	ES						
,	FILING	FEES SI	EARCH F		MINATION F				
Application Type	Fee (\$)	<u>Small Entity</u> <u>Fee (\$) </u>	- /A\	<u>all Entity</u> ee (\$)	<u>Small En</u> (\$) Fee (\$		<u>(\$)</u>		
Utility	300	150 5		250 20		•			
Design	200	100 1	00	50 13	60 65				
Plant	200	100 3	00	150 16	60 80				
Reissue	300	150 5	00	250 60	300				
Provisional	200	100	0	0	0 0				
2. EXCESS CLAIM FEES Fee Description Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent 200 100									
Multiple dependent clair Total Claims	uus Extra Claim	s Fee (\$)	Fee Paid ('\$) Multi	iple Depender	360 at Claims	180		
- 20 or HP = HP = highest number of total					ee (\$)	Fee Paid (\$)			
Indep. Claims	al claims paid for Extra Claim	; if greater than 20 <u>s Fee (\$)</u>	Fee Paid (<u>\$)</u> —					
3 or HP = x = HP = highest number of independent claims paid for, if greater than 3									
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)									
Total Sheets									
4. OTHER FEE(S) Fees Paid (\$)									
Non-English Specification, \$130 fee (no small entity discount)									
Other: Request for Certificate of Correction 100.00									
SUBMITTED BY									

MAR I

SUBMITTED BY						
Signature	M	Registration No. 39,564 (Attorney/Agent)	Telephone (937) 449-6400			
Name (Print/Type)	James E Beyer		Date 03/08/2006			

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

MAR 1 9 2006



PTO/SB/17 (12-04) roved for use through 07/31/2006, OMB 0651-0032

Under May Panerwork Reduction Act of	1995 no nersc	nns are required to re	U.S. Pate	nt and Trac	lemark Office:	U.S. DEPARTI	72006. OMB 065 MENT OF COMI id OMR control r	MERCE
Effective on 12	Complete If Known							
Tees pursuant to the Consolidated App	Application Number		09/992,552; 6,901,809 B2					
FEE TRANSMITTAL			Filing Date		11/16/01; 0	6/07/05		
For FY 2005			First Named In	ventor	Pingsha Dong			
			Examiner Name Lilybett Martir					
Applicant claims small entity status. See 37 CFR 1.27			Art Unit	rt Unit 2855				
TOTAL AMOUNT OF PAYMENT	(\$)	100.00	Attorney Dock	et No.	BAT 0031 PA			
METHOD OF PAYMENT (chec	k all that ap	ply)						
Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):								
Deposit Account Deposit Ac	count Number	·	Deposit	Account Na	me:			
For the above-identified dep	osit account,	the Director is he	reby authorized t	to: (check	all that apply	')		
Charge fee(s) indicate	ed below		Chai	rge fee(s)	indicated be	low, except f	or the filing f	ee
Charge any additiona		derpayments of fe	e(s) Cred	dit any ove	erpayments			
under 37 CFR 1.16 a WARNING: Information on this form m	nay become pu	blic. Credit card in	formation should	not be inc	luded on this	form. Provide	credit card	
information and authorization on PTO-	-2038.							
FEE CALCULATION						· · · · · · · · · · · · · · · · · · ·		
1. BASIC FILING, SEARCH, A	ND EXAMII NG FEES		RCH FEES	FXAN	INATION F	FFS		
· ·	Small En	tity	Small Entity	_	Small Er	ntity	Fees Paid (\$)	
Application Type Fee of Type Utility 300		<u>) Fee.(\$</u> 500		<u>Fee</u>		<u>)</u>	rees raid (4)	
Design 200		100	250			_		-
Plant 200		300	50 150	130		_		-
Reissue 300		500	150	160 600		-		-
Provisional 200			250			_		-
2. EXCESS CLAIM FEES	100	0	0	C	. 0	_	Call	- Endidor
Fee Description							<u>Small</u> Fee (\$) Fee	
Each claim over 20 or, for Reiss								25
Each independent claim over 3	or, for Reiss	sues, each indep	endent claim n	nore thar	n in the orig	inal patent		00
Multiple dependent claims Total Claims Extra C	laims F	ee (\$) Fee	Paid (\$)	Multir	ole Depende	nt Claims	300 18	80
20 or HP =	x	=			e (\$)	Fee Paid (\$	5)	
HP = highest number of total claims pa			Daid (A)				_	
<u>Indep. Claims</u> <u>Extra C</u> 3 or HP =	x		Paid (\$)					
HP = highest number of independent c	laims paid for, i	f greater than 3						
3. APPLICATION SIZE FEE	•		1.			#050 (#105		
If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity)								
for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)								
100 = / 50 = (round up to a whole number) x =								
4. OTHER FEE(S)						Fees Paid	1(\$)	
Non-English Specification, \$130 fee (no small entity discount)								
Other: Request for Certificate of Correction							100.00)
SUBMITTED BY								

Signature Registration No. 39,564 Telephone (937) 449-6400

Name (Print/Type) James E Beyer Date 03/08/2006

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(Also Form PTO-1050)

Page 1 of 4

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,901,809 B2

APPLICATION NO.: 09/992,552

ISSUE DATE

June 7, 2005

INVENTOR(S)

: Dong et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

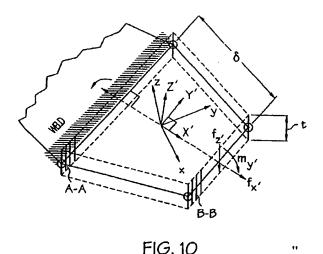
In the drawings, Sheet 9, Fig. 10, the dimensional projection for the term δ has been corrected;

" U.S. Patent

Jun. 7, 2005

Sheet 9 of 10

US 6,901,809 B2



MAILING ADDRESS OF SENDER (Please do not use customer number below):

Dinsmore & Shohl, LLP

One Dayton Centre

One South Main Street, Suite 1300

Dayton, Ohio 45402

This collection of Information is required by 37 CFR 1.322, 1.323, and 1.324. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 2 of 4

Approved for use through 04/30/2007. OMB 0651-0033
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should read --

U.S. Patent

Jun. 7, 2005

Sheet 9 of 10

US 6,901,809 B2

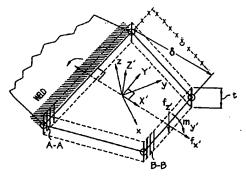


FIG. 10

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Dinsmore & Shohl, LLP One Dayton Centre One South Main Street, Suite 1300 Dayton, Ohio 45402

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page __3 _ of _ 4_

PATENT NO. : 6.901.809 B2

APPLICATION NO.: 09/992,552 June 7, 2005 ISSUE DATE INVENTOR(S) . Dong et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 9, line 20, "
$$\sigma_m = \frac{1}{t_1} \int_0^{t_1} \sigma_x(y) dy + \frac{1}{t_1} \int_0^{\delta} \tau_{yx}(x) dx$$
" should read

$$-\sigma_{M} = \frac{1}{t_{1}} \int_{0}^{t_{1}} \sigma_{x}(y) dy + \frac{1}{t_{1}} \int_{0}^{\delta} \tau_{yx}(x) dx_{--;}$$

Col. 9, line 30, "
$$\sigma_m \left(\frac{l_1^2}{2}\right) + \sigma_b \left(\frac{l_1^2}{6}\right)$$
" should read -- $\sigma_m \left(\frac{t_1^2}{2}\right) + \sigma_b \left(\frac{t_1^2}{6}\right)$ --;

Col. 10, line 60, "
$$\sigma_m' = \frac{(t-t_2)^2}{2} + \sigma_b' \frac{(t-t_2)^2}{6} = \int_0^{t-t_2} \sigma_X(y) y dy + \delta \int_0^{t-t_2} \tau_{xy}(y) dy$$
"

should read
$$-\sigma_m' \frac{(t-t_2)^2}{2} + \sigma_b' \frac{(t-t_2)^2}{6} = \int_0^{t-t_2} \sigma_X(y) y dy + \delta \int_0^{t-t_2} \tau_{xy}(y) dy - ...;$$

Col. 12, line 32, "
$$\sigma_s \sigma_B + \sigma_{M'' \text{ should read }} - \sigma_s = \sigma_B + \sigma_{M''}$$

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page __4_ of _4_

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APPLICATION NO.: 09/992,552

ISSUE DATE : June 7, 2005

INVENTOR(S) : Dong et al.

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$$\sigma_{s} = \sigma_{T}^{B} + \frac{L}{l} \left(\sigma_{b}^{C} - \sigma_{b}^{B} \right)_{-; \text{ and}}$$

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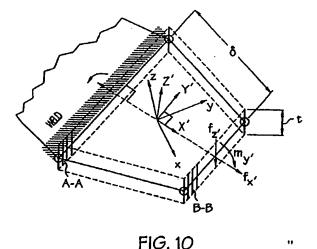
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" U.S. Patent

Jun. 7, 2005

Sheet 9 of 10

US 6,901,809 B2



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Dayton, Ohio 45402

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Page $\frac{2}{}$ of $\frac{4}{}$

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Sheet 9 of 10

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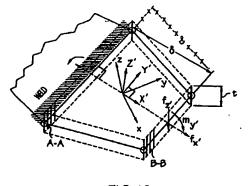


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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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PATENT NO. : 6,901,809 B2

APPLICATION NO.: 09/992,552

ISSUE DATE : June 7, 2005

INVENTOR(S) : Dong et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 9, line 20, "
$$\sigma_m = \frac{1}{t_1} \int_0^{t_1} \sigma_x(y) dy + \frac{1}{t_1} \int_0^{\delta} \tau_{yx}(x) dx$$
" should read

$$-\sigma_{M} = \frac{1}{t_{1}} \int_{0}^{t_{1}} \sigma_{x}(y) dy + \frac{1}{t_{1}} \int_{0}^{\delta} \tau_{yx}(x) dx -;$$

Col. 9, line 30, "
$$\sigma_m \left(\frac{l_1^2}{2}\right) + \sigma_b \left(\frac{l_1^2}{6}\right)$$
" should read -- $\sigma_m \left(\frac{t_1^2}{2}\right) + \sigma_b \left(\frac{t_1^2}{6}\right)$ -;

Col. 10, line 60, "
$$\sigma_m' = \frac{(t-t_2)^2}{2} + \sigma_b' \frac{(t-t_2)^2}{6} = \int_0^{t-t_2} \sigma_X(y) y dy + \delta \int_0^{t-t_2} \tau_{xy}(y) dy$$
"

should read
$$-\sigma_{m}' \frac{(t-t_{2})^{2}}{2} + \sigma_{b}' \frac{(t-t_{2})^{2}}{6} = \int_{0}^{t-t_{2}} \sigma_{X}(y)ydy + \delta \int_{0}^{t-t_{2}} \sigma_{xy}(y)dy - ;$$

Col. 12, line 32, "
$$\sigma_s \sigma_B + \sigma_{M'' \text{ should read}} - \sigma_s = \sigma_B + \sigma_{M;}$$

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PATENT NO. : 6,901,809 B2

APPLICATION NO.: 09/992,552

ISSUE DATE : June 7, 2005

INVENTOR(S) : Dong et al.

Page __4__ of _4__

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 14, line 43. "
$$\sigma_b = \sigma_b^C + \frac{L}{l} (\sigma_b^C - \sigma_b^B)$$
" should read

$$-\sigma_b = \sigma_b^B + \frac{L}{l} \left(\sigma_b^C - \sigma_b^B \right)_{-;}$$

Col. 14, line 50, "
$$\sigma_s = \sigma_T^C + \frac{L}{l} (\sigma_b^C - \sigma_b^B)_{\text{"should read}}$$

$$\sigma_{s} = \sigma_{T}^{B} + \frac{L}{l} \left(\sigma_{b}^{C} - \sigma_{b}^{B} \right)_{-; \text{ and}}$$

Col. 15, line 19, "
$$\sigma_s = \sigma_T^C + \frac{L}{l} (\sigma_b^C - \sigma_b^B)$$
" should read

$$\sigma_s = \sigma_T^B + \frac{L}{l} \left(\sigma_b^C - \sigma_b^B \right).$$

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